

FEBRUARY 22

9:00-9:30	OPENING Alberto Morgante – Coordinator of the PhD School in Nanotechnology, University of Trieste Alessandro Baraldi – Delegate for Research and PhD of the University of Trieste			
CHAIR: Alberto Morgante				
	PhD student	Cycle	Supervisor	Title
9:30-9:50	Beatrice Bartolomei	36	M. Prato	Nuclear magnetic resonance discloses flaws in carbon nanodot samples
9:50-10:10	Nicoletta Braidotti	36	D. Cojoc	Near-interface investigation of cytoskeletal drugs' effect on cells' rheological response
10:10-10:30	Valeria Chesnyak	36	C. Africh	Carbide coating on nickel to enhance the stability of supported metal nanoclusters
10:30-10:50	Deepak Dagur*	36	P. Torelli	Light induced magnetic modifications in multiferroic heterostructures
10:50-11:10	Žiga Ponikvar*	-	S. Gyergyek	Methods of catalyst preparation for ammonia decomposition
11:10-11:30	BREAK			
CHAIR: Tomaž Mertelj				
	PhD student	Cycle	Supervisor	Title
11:30-11:50	Farooq Ayesha	36	S. Fabris	Development of high-strength nanostructured multilayers for applications in nuclear fusion reactors
11:50-12:10	Veronika Kost	36	T. Da Ros	Preparation of BN graphene quantum dots and investigation of their photophysical and electrochromic properties
12:10-12:30	Claudio Lentini Campallegio	36	A. Morgante	Charge dynamics in complex 2D heterostructures
12:30-12:50	Carolina Paba	36	L. Casalis	Biophysical analysis of small extracellular vesicles (sEVs) and their interaction with model plasma membrane
12:50-13:10	Jernej Ekar*	-	J. Kovač	Reduction of matrix effect in ToF-SIMS depth profiling via H ₂ flooding
13:10-15:10	BREAK			
CHAIR: Lucia Pasquato				
	PhD student	Cycle	Supervisor	Title
15:10-15:30	Giulia Della Pelle*	-	N. Kostevšek	Erythrocyte-derived carriers for theranostics applications
15:30-15:50	Petr Rozhin	36	S. Marchesan	Towards composite hydrogels with functionalized carbon nanostructures and a self-assembling tripeptide
15:50-16:10	Smritirekha Talukdar	36	T. Montini	Reduction of CO ₂ to fuels by photocatalysis and electrocatalysis

16:10-16:30	Spase Stojanov*	-	A. Berlec	Incorporation of vaginal lactobacilli into electrospun nanofibers: toward a new treatment of vaginal infections
16:30-16:50	Martina Zangari	36	L. Vaccari	On the role played by protein-asbestos fiber interaction in asbestos toxicity: a multi-technique approach from single fiber to cellular and tissue milieu
16:50-17:10	Federica Zingaro	36	G. Gianoncelli	Toxicological research: labelled microplastics detection in an <i>in vitro</i> human model by soft X-Ray micro-spectroscopy

*online talk.

FEBRUARY 23

CHAIR: Albano Cossaro

	PhD student	Cycle	Supervisor	Title
09:30-9:50	Matteo Bisetto	35	P. Fornasiero	A study inside the catalytic behavior of Cu ₂ O nanoparticles
09:50-10:10	Mario Daka	34	L. Pasquato	Reduced polynuclear Pd ₈ complex for heterogeneous Suzuki-Miyaura cross-coupling reactions
10:10-10:30	Matteo Cretella	35	L. Pasquato	Design, synthesis and use of organic-inorganic nanoparticles protected by fluorinated ligands as nanomaterial for imaging and therapy
10:30-10:50	Magdhi Kirti	35	G. Biasiol	Optimization of semiconductor-superconductor nano-systems for the development of Andreev qubits
10:50-11:10	Yevhenii Vaskivskyi*	-	D. Mihailović	Chiral domains and charge density wave dynamics in 1T-TaS ₂

11:10-11:30 BREAK

CHAIR: Alenka Mertelj

	PhD student	Cycle	Supervisor	Title
11:30-11:50	Federico Loi	35	A. Baraldi	The smallest silver oxide
11:50-12:10	Silvia Mauri*	35	P. Torelli	Investigation of the surface reactivity of catalysts by operando X-ray absorption spectroscopy with synchrotron radiation
12:10-12:30	Edoardo Raciti	35	M. Prato	Defect-modulated catalytic response in 2D carbon nitride: insights from modeling
12:30-12:50	Luka Pavešič*	-	R. Žitko	Subgap states in superconducting islands

12:50-14:50 LUNCH

CHAIR: Darja Lisjak

	PhD student	Cycle	Supervisor	Title
14:50-15:10	Aharon Steffè	35	G. Toffoli	Triple-action nanoplatform for theranostic applications in hepatocellular carcinoma (HCC)
15:10-15:30	Mina Taleblou	35	S. Piccinin	Study of CO oxidation on Pt atomic systems supported on TiO ₂
15:30-15:50	Michele Zanetti*	35	M. Lazzarino	Cardiac tissue models to investigate the heart mechanobiology
15:50-16:10	Marco Beltrami	34	O. Sbaizero	Nanostructured multilayer coatings for wood cutting tools

16:10-16:30 BREAK

CHAIR: Alois Bonifacio

	PhD student	Cycle	Supervisor	Title
16:30-16:50	Erik Betz-Güttner	34	M. Lazzarino	Terahertz sensing with Golay cell microarray device

16:50-17:10	Davide Busato	34	G. Toffoli	Antibody-driven chitosan nanoparticles for drug delivery strategies in pancreatic ductal adenocarcinoma
17:10-17:30	Martina Conti	34	M. Lazzarino	Nanomechanical sensors in partial wetting condition for biosensing application

*online talk.

FEBRUARY 24

CHAIR: Vanni Lughi				
	PhD student	Cycle	Supervisor	Title
9:30-9:50	Filippo Costa	35	S. Prato	Imaging and analysis at nanoscale. Merging between SPM and optics
9:50-10:10	Federica Di Cintio*	34	G. Toffoli	Nanoparticles anti-GPC1 for glioblastoma multiforme treatment
10:10-10:30	Simone Di Noja*	34	M. Prato	Transfer of axial chirality to the nanoscale endows carbon nanodots with circularly polarized luminescence
10:30-10:50	Dževad K. Kozlica*	-	I. Milošev	Characterization of the localized corrosion phenomena of Al/Cu galvanic couple by scanning electrochemical microscopy
10:50-11:10	BREAK			
CHAIR: Francesca Larese Filon				
	PhD student	Cycle	Supervisor	Title
11:10-11:30	Alessandro Esposito	34	V. Sergo	Label-free SERS spectroscopy new perspectives in the bioanalytical field and biofluids analysis
11:30-11:50	Marcello Ferrara*	34	P. Fornasiero	Effects of SO ₂ trace impurities in CO ₂ feed on copper and Tin based catalysts during CO ₂ RR
11:50-12:10	Arianna Gazzi	34	M. Prato	Immunocompatibility and biomedical applications of new nanomaterials
12:10-12:30	Uroš Hribar*	-	J. König	Direct foaming of CRT waste glass in air atmosphere
12:30-12:50	Matjaž Dlouhy*	-	A. Kokalj	How adsorbed H, O, OH, and Cl affect on the adsorption of imidazole on copper
12:50-14:50	LUNCH			
CHAIR: Serena Bonin				
	PhD student	Cycle	Supervisor	Title
14:50-15:10	Monica Mossenta	34	G. Toffoli	Set-up of anti-GPC3-driven polymeric nanoparticles in hepatocellular carcinoma
15:10-15:30	Lorenzo D'Amico	36	G. Tromba	Imaging and characterization of fibrotic tissues
15:30-15:50	Cristian Soncini	34	M. Pedio	The influence of molecular ordering on the cobalt phthalocyanine excited states dynamics
15:50-16:10	Chiara Stocco	34	R. Di Lenarda	Nanofiber polymeric scaffold for slow and steady release of VEGF and ECs to induce efficient angiogenesis and healing in a mouse model of hind limb ischemia
16:10-16:30	BREAK			

16:30-16:50	"FERNANDO TOMMASINI" AWARD "ALESSANDRO DE VITA" AWARD "BEST CAREER" AWARD
16:50-17:00	CLOSING REMARKS Alberto Morgante – <i>Coordinator of the PhD School in Nanotechnology, University of Trieste</i> Dragan Mihailović – <i>Director of the Centre of Excellence in Nanoscience and Nanotechnology (Ljubljana), Institut Jožef Stefan and University of Ljubljana</i>

*online talk.